BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Improvements to Roads and Drains at Kuvempunagara 1st Stage in Ward No. 11, Vidyaranyapura Sub Division.**

							Estimate Cost:		**4900000.00**
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 138 / Item No. 19.1 / PWD SR 2014-15**	Cum							
	Desilting of Drains								
	Old Ward Office Road		2	200.00	0.45	0.40	72.00		
	Naidu Layout Main Road		2	180.00	0.45	0.40	64.80		
	Cross Road		2	70.00	0.45	0.40	25.20		
	PHC Road		2	150.00	0.45	0.40	54.00		
	Cross Road		4	80.00	0.45	0.40	57.60		
			2	100.00	0.45	0.40	36.00		
	For Road Work								
	Old Ward Office Road		1	200.00	7.00	0.15	210.00		
	Naidu Layout Main Road		1	180.00	6.00	0.15	162.00		
	Cross Road		1	70.00	5.00	0.20	70.00		
	PHC Road		1	150.00	5.00	0.15	112.50		
	Cross Road		2	80.00	5.00	0.15	120.00		
			1	100.00	5.00	0.15	75.00		
	For CC Road								
	1st Stage 2nd Cross		1	160.00	4.50	0.15	108.00		
	Gutte Ganapathi Temple Surrounding		1	70.00	6.00	0.15	63.00		
			1	15.00	6.00	0.15	13.50		
							1243.60	75.60	**94016.00**
	Basic Rate	70.00							
	Area Weightage @8%	5.60							
	Total	**75.60**							
2	Removing B.S Slab of Drain and stacking **Page No. 25 / Item No. 5.32 / PWD SR 2014-15**	Sqm							
	Old Ward Office Road		2	200.00		1.35	540.00		
	Naidu Layout Main Road		2	180.00		1.35	486.00		
	Cross Road		2	70.00		1.35	189.00		
	PHC Road		2	150.00		1.35	405.00		
	Cross Road		4	80.00		1.35	432.00		
			2	100.00		1.35	270.00		
							2322.00	58.32	**135419.00**
	Basic Rate	54.00							
	Area Weightage @ 8%	4.32							
	Total	**58.32**							
3	Refixing stone slabs of drains and pointing in CM (1:3) **Page No. 25 / Item No. 5.32 / PWD SR 2014-15**	Sqm							

No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
			Qty Vide Item No. 2				2322.00		
							2322.00	75.60	**175543.00**
	Basic Rate	70.00							
	Area Weightage @ 8%	5.60							
	Total	**75.60**							
4	Providing, laying, spreading and compacting graded stone aggregate to **wet mix macadam** specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications **Page No. 154 / I. 20.18 PWD SR - 2014-15**	Cum							
	UGD and Water Line Cutting								
	Old Ward Office Road		1	200.00	1.00	0.15	30.00		
	Naidu Layout Main Road		1	180.00	1.00	0.15	27.00		
	Cross Road		1	70.00	1.00	0.15	10.50		
	PHC Road		1	150.00	1.00	0.15	22.50		
	Cross Road		2	80.00	1.00	0.15	24.00		
			1	100.00	1.00	0.15	15.00		
	Road Surface								
	Old Ward Office Road		1	200.00	7.00	0.15	210.00		
	Naidu Layout Main Road		1	180.00	6.00	0.15	162.00		
	Cross Road		1	70.00	5.00	0.15	52.50		
	PHC Road		1	150.00	5.00	0.15	112.50		
	Cross Road		2	80.00	5.00	0.15	120.00		
			1	100.00	5.00	0.15	75.00		
							861.00	1438.56	**1238600.00**
	Basic Rate	1332.00							
	Area Weightage @ 8%	106.56							
	Total	**1438.56**							
5	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM, WMM including cleaning of road surface and spraying primer at the rate of 0.60 Kg / sqm using mechnical means complete as per specifications. MORTH specification NO. 502, **Page No. 157 / Item No. 21.6 / PWD SR 2014-15**	Sqm							
	Old Ward Office Road		1	200.00	7.00		1400.00		
	Naidu Layout Main Road		1	180.00	6.00		1080.00		
	Cross Road		1	70.00	5.00		350.00		
	PHC Road		1	150.00	5.00		750.00		
	Cross Road		2	80.00	5.00		800.00		
			1	100.00	5.00		500.00		
							4880.00	31.32	**152842.00**
	asper Revised Basic Rate	29.00							
	Area Weightage @ 8%	2.32							
	Total	**31.32**							

No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
6	KSRRB M500-18: Providing and laying **semi dense bituminous concrete** using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 500.8 complete in all respects as per specifications. **with 100-120 TPH capacityH.M.P with sensor paver Gr-II (25 mm to 30 mm) with 5 % VG-30 Bitumen Page No. 159 / Item No. 21.20.2 / PWD SR 2014-15**	Cum							
	Old Ward Office Road		1	200.00	7.00	0.025	35.00		
	Naidu Layout Main Road		1	180.00	6.00	0.025	27.00		
	Cross Road		1	70.00	5.00	0.025	8.75		
	PHC Road		1	150.00	5.00	0.025	18.75		
	Cross Road		2	80.00	5.00	0.025	20.00		
			1	100.00	5.00	0.025	12.50		
							122.00	8475.84	**1034052.00**
	as per Revised Basic Rate	7848.00							
	Area Weightage @ 8%	627.84							
	Total	**8475.84**							
7	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12/ Item No. 4.3/ PWD SR 2014-15**	Cum							
	1st Stage 2nd Cross		1	160.00	4.50	0.15	108.00		
	Gutte Ganapathi Temple Surrounding		1	70.00	6.00	0.15	63.00		
			1	15.00	6.00	0.15	13.50		
							184.50	4847.04	**894279.00**
	Basic Rate	4488.00							
	Area Weightage @ 8%	359.04							
	Total	**4847.04**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
8	Providing and laying cement concrete using 20mm and down size granite jelly of **ready mixed concrete (RMC)for R.C.C works** laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 (1:1.5:3) for raft foundation, column footing, main and secondary beams. **Page No. 18 / Item No. 4.48 / PWD SR 2014-15**	Cum							
	1st Stage 2nd Cross		1	160.00	4.50	0.125	90.00		
	Gutte Ganapathi Temple Surrounding		1	70.00	6.00	0.125	52.50		
			1	15.00	6.00	0.125	11.25		
							153.75	5847.12	**898995.00**
	Basic Rate	5414.00							
	Area Weightage @ 8%	433.12							
	Total	**5847.12**							
9	Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc., with all lead and lift No. **171 / Item No. 22.7 / PWD SR 2014-15**	Sqm							
	1st Stage 2nd Cross		1	160.00	4.50		720.00		
	Gutte Ganapathi Temple Surrounding		1	70.00	6.00		420.00		
			1	15.00	6.00		90.00		
							1230.00	97.20	**119556.00**
	Basic Rate	90.00							
	Area Weightage @ 8%	7.20							
	Total	**97.20**							
10	Providing **groove cutting** for width of 5mm to 10mm and depth 80mm-100mm including cost of cutting machine, generator and HOM of machinery including cost of blade coolant etc including cleaning of groove and providing sand and hot bitumne fillars, and filler metal etc., indluding cost of converyance of all materials, labours, lead and lift charges and all other incidental charges as per drawing and as per specification **Concrete Pavement Page No. 172 / Item No. 22.8.1 / PWD SR 2014-15**	Rmt							
			15	4.50			67.50		
			7	6.00			42.00		
			2	6.00			12.00		
							121.50	124.20	**15090.00**
	Basic Rate	115.00							
	Area Weightage @ 8%	9.20							
	Total	**124.20**							

No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
11	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123)	Cum							
			Vide Item No. 1				**1243.60**	73.57	**91491.00**
	Basic rate for haulage of materials as per item no.17.4 page 141) Rs. 2.00								
	Average weight of earth 1.28 tonne / kg for 2X1.28X2.00=5.12	5.12							
	Add loading and unloading Vide item no.17.1 P.no.130 PWD SR 2014-15	63.00							
		68.12							
	Area Weightage @ 8%	5.45							
	Total	**73.57**							
12	Sub Total								**4849883.00**
13	For Third Party QC Charges @ 1%								**48499.00**
14	Miscellaneous and other Charges	L/S							**1618.00**
								Total	**4900000.00**
(Rupees Fourty Nine Lakhs Only)									

CERTIFICATE :

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2014-15.
3 This work included under MLA Grants 2015-16.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Junior Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

ADMINISTRATIVELY SANCTIONED FOR Rs. 49.00 lakhs
Rupees Fourty nine lakhs only
Under P-3084

Technical Sanction
Accorded For 49.00 lakh Rs.
Head of A/C P3089
CER NO : 63 Dt: 21.8.15

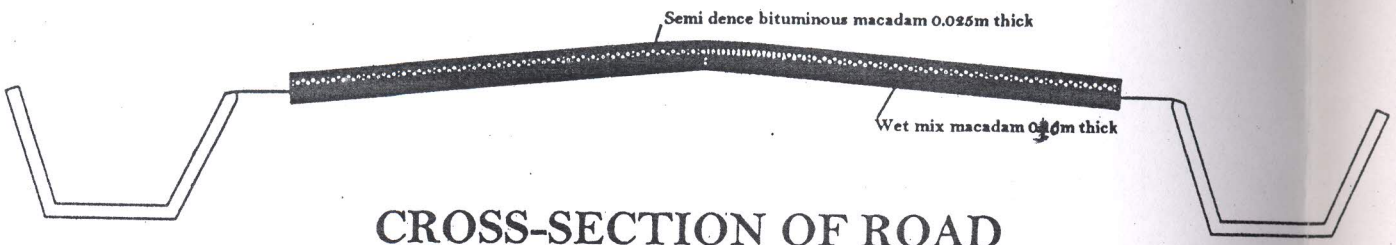
TA - CE (YNK)

Registered as EE ( ) No 3 ...9...
Subject to conditions contained in
enclosed memo EE ( ) No ...191...
Dt Estimate sanctioned
JC(Y)/QC/15/43/2015-16
dated 20/8/2015 49.00 lakhs

Joint Commissioner
(Yelahanka Zone)
BBMP, Bengaluru-92.

(11)

Name of Work: Improvements to Roads and Drains at Kuvempunagara 1st Stage in Ward No. 11 Vidyaranyapura Sub Division.

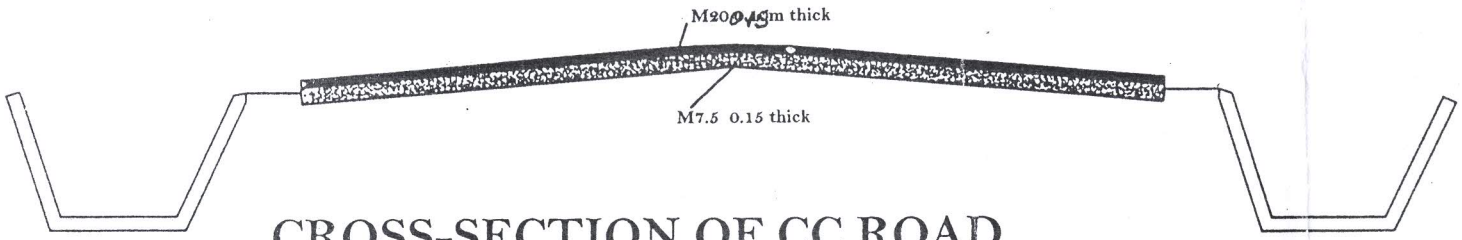


CROSS-SECTION OF ROAD

INDEX

- Wet mix macadam
- Semi dence bituminous concret

NAME OF WORK:-



CROSS-SECTION OF CC ROAD

INDEX

M7.5 1:4:8 0.15m Thick

M20 1:1.5:3 0.10m Thick

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER
VIDYARANYAPURA SUB DIVISION.